

**Section I - Product and Company Information**

Product Name	CB6937- Myeloperoxidase Assay Kit (500 assays)
Product Classification	Myeloperoxidase Assay Kit (500 assays)
Company and Contact Information	<p>Cell Biologics, Inc.                  2201 W Campbell Park Drive                  Chicago, IL 60612 USA                  Phone number: 312-226-8198                  US emergency phone number: 312-226-8198; E-mail: service@cellbiologics.com                  Fax number: 312-226-8958</p>

**Section II - Potential Hazards Information**

This product is not hazardous as defined by OSHA 1910.1200 and according to Directive 67/548/EEC.

**Section III - Description of product**

Myeloperoxidase (MPO) is the most abundant proinflammatory enzyme in neutrophilic granulocytes, accounting for approximately 5% of their dry mass. It catalyzes the formation of hypochlorous acid from hydrogen peroxide, generates other highly reactive molecules such as tyrosyl radicals, and cross-links proteins. MPO is implicated in a multitude of diseases, including atherosclerosis, myocardial infarction, atrial fibrillation, multiple sclerosis, Alzheimer's disease, lung cancer, and transplant rejection.

We have developed a simple, rapid and highly sensitive assay to measure cell and tissue MPO activity for wide analyses of multiple types of tissues, organs. The assay will be performed within two hours from sample preparation to data availability.

**Section IV - Health hazards**

IV.1 Classification of the Substance or Mixture:	Flammable Liquids, Category 4
IV.2 Label Elements:	<p>A: Sample preparation buffer (100 ml) – Buffer A                  B: Pre-reaction buffer (50 ml) – Buffer B                  C: Stop buffer (50 ml) – Buffer C                  D: H<sub>2</sub>O<sub>2</sub> solution (500 µl) – Buffer D                  E. Dianisidine dihydrochloride solution (500 µl) – Buffer E</p>
IV.3 Adverse Human Health	All the Reagents have potential to carry toxic materials or materials of unknown toxicity into the body.
IV.4 Effects and Symptoms:	Material E is readily absorbed through skin. Material E may be irritating to the mucous membranes and upper respiratory tract. May be harmful by inhalation, ingestion, or skin absorption. May cause eye, skin, or respiratory system irritation. To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

**Section V - Formulation and Ingredients Information**

Product Name	CB6937- Myeloperoxidase Assay Kit (500 assays)
CAS-No.	None
EC-No.	None

**Section VI - First Aid Measures**

In Case of Contact with Eyes	Flush thoroughly with water and contact a physician.
In Case of Accidental Swallowing	Rinse the mouth with fresh water, provided the person is conscious. Contact a physician.
In Case of Inhalation	Remove to fresh air. Give oxygen if breathing becomes difficult. Contact a physician.
In Case of Contact with Skin	Wash the affected area with soap and copious amounts of water. Should irritation occur, contact a physician.

**Section VII - Fire-Fighting Measures**

Suitable Extinguishing Media	Water spray, carbon dioxide, dry chemical powder, or appropriate foam.
Special Protective Equipment for Firefighting	If necessary, use self-contained breathing apparatus.

**Section VIII - Accidental Release Measures**

Methods for Cleaning Spills	Wear chemical-resistant gloves and safety-goggles. Wipe up spilled product using tissue-towels. Place waste in closed containers for disposal.
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**Section IX - Handling and Storage**

Handling	Avoid contact with eyes, skin, mucous membranes, and clothing.
Storage	Keep tightly closed. Protect from light. Store at -20°C.

**Section X - Personal Protection and Exposure Control Information**

Eye Protection	Safety glasses or goggles
Protective Gloves	Chemical-resistant gloves
Respiratory Protection	Not required
Ventilation	Not required
Other Protection Equipment	Safety shower and eye bath

**Section XI - Physical and Chemical Properties**

Physical State	Liquid
Appearance	Clear solution
pH	N/A
Flash Point	N/A
Flammability	N/A
Oxidizing Properties	N/A
Explosive Properties	N/A
Vapor Pressure	N/A

**Section XII - Chemical Stability and Reactivity**

Product is stable. Hazardous polymerization will not occur.

**Section XIII - Toxicological Data**

To the best of our knowledge, the chemical, physical, toxicological properties have not been thoroughly investigated. May cause skin irritation. May be harmful if absorbed through the skin. May cause eye irritation. May be harmful if inhaled swallowed. Material may be irritating to mucous membranes upper respiratory tract.

**Section XIV - Ecological Information**

No data available.

**Section XV - Disposal**

Follow all federal, state, and local environmental regulations for disposal.

**Section XVI - Transport Information**

This product is not subject to any transport regulations.

**Section XVII - Classification and Regulatory Information**

In accordance to current EC-Regulations this product is exempt from specific labelling requirements

**Section XVIII - Other Information / Disclaimer**

*Cell Biologics* recommends that appropriate safety procedures be used when handling all cell culture systems. Detailed discussions of laboratory safety procedures are available in the journal *Cell* <http://www.cell.com/>; American Society for Cell Biology <http://www.ascb.org>; United States Government Publication, Biosafety in Microbiological and Biomedical Laboratories (CDC, 1999) <http://www.cdc.gov>.

The above information is correct to the best of our knowledge. All materials and mixture formulations may present unknown hazards and should be used with caution. The user should make independent decisions regarding the completeness of information based on all sources available. *Cell Biologics* shall not be held liable for any damage resulting from handling or contact with the above product.

**The Cell Biologics' emergency contact number: (312) 226-8198; E-mail: [service@cellbiologics.com](mailto:service@cellbiologics.com)**